

EAS1 - [10621050.wsp.1]

File View Edit Tools Window Help

11: (0) 10 and (passivation).ti.
12: (6) 10 and (passivation).ab.
13: (55) 10 not 12
14: (6) 13 and (passivation).clm.
15: (49) 13 not 14
16: (5) 15 and (sputter\$4 with passivation)
17: (237) (ferroelectr\$4 or magnet\$4) and (sputter\$4
18: (16) 17 and (((Aluminum or "Al") and (Titanium c
19: (12) 18 not (2 8 9 12 14 16)
20: (170) (ferroelectr\$4 or magnet\$4) and ((Aluminum
21: (145) 20 not (2 8 9 12 14 16 19)
22: (95) 21 and (electrode)
23: (45) 22 and chamber
24: (2) (ferroelectr\$4 or magnet\$4) and ("Al-Ti-O" c

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USPAT.USPGPUE.EPO.IPO.EM.TDB
Default operator: CR
P Purge
P Highlight all items in fully

17 and (((Aluminum or "Al") and (Titanium or "Ti")) with passivation)

US 20020140011 A1
US 6630702 B2
US 6573169 B2
US 6492694 B2
US 6413863 B1
US 6333528 B1
US 6294438 B1
US 6229167 B1
US 6169304 B1

U	I	PT	P	Document ID	Issue	Date	Pages	Title	Current OR	Current XRef	R	Inventor	S	C
1				US 20020140011 A1		20021003	9	Method of using titanium doped aluminum oxide for passivation of ferroelectric materials and	257/295	257/E21.009; 257/E21.274; 257/E21.281;		Zhang, Fengyan et al.		
2				US 6630702 B2		20031007	9	Method of using titanium doped aluminum oxide for passivation of ferroelectric materials and	257/295	257/306; 257/E21.009; 257/E21.274;		Zhang, Fengyan et al.		
3				US 6573169 B2		20030603	16	Highly conductive composite polysilicon gate for CMOS integrated circuits	438/592	438/585; 438/594		Noble, Wendell P. et al.		
4				US 6492694 B2		20021210	16	Highly conductive composite polysilicon gate for CMOS integrated circuits	257/410	257/411; 257/412; 257/413;		Noble, Wendell P. et al.		
5				US 6413863 B1		20020702	11	Method to resolve the passivation surface roughness during formation of the AlCu pad for the	438/687	257/E21.31; 257/E21.311; 257/E21.508;		Liu, Chung-Shi et al.		
6				US 6333528 B1		20011225	25	Semiconductor device having a capacitor exhibiting improved moisture resistance	257/295	257/296; 257/532; 257/535;		Arita, Koji et al.		
7				US 6294438 B1		20010925	26	Semiconductor device having capacitor and manufacturing method thereof	438/396	257/E21.008; 257/E21.009; 257/E21.011;		Arita, Koji et al.		
8				US 6229167 B1		20010508	15	Semiconductor device and method of manufacturing the same	257/295	257/296; 257/300; 257/532;		Ozawa, Takanori		
9				US 6169304 B1		20010102	25	Semiconductor device having a	257/295	257/296; 257/532;		Arita, Koji et al.		

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L Number	Hits	Search Text	DB	Time stamp
1	278	(form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)	USPAT	2004/03/21 18:29
2	350	zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/21 18:22
3	277	((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/21 18:22
4	69	((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/21 18:24
5	2	((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.2O.sub.3"))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/21 18:29
6	67	((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.2O.sub.3"))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/21 18:29
7	0	((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.2O.sub.3"))	USPAT	2004/03/21 18:30
8	0	((form\$4 or creat\$4) adj (passivation adj layer)).ti. (((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.2O.sub.3")) and ((form\$4 or creat\$4) adj (passivation adj layer)).ab.	USPAT	2004/03/21 18:30

9	6	((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.20.sub.3")))) and ((form\$4 or creat\$4) adj (passivation adj layer)).clm.	USPAT	2004/03/21 19:05
10	61	((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.20.sub.3")))) not (((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.20.sub.3")))) and ((form\$4 or creat\$4) adj (passivation adj layer)).clm.)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/21 19:06

11	0	<p>(((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.20.sub.3")))) not ((((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.20.sub.3")))) and ((form\$4 or creat\$4) adj (passivation adj layer)).clm.)) and (passivation).ti.</p>	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/21 19:06
12	6	<p>(((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.20.sub.3")))) not ((((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.20.sub.3")))) and ((form\$4 or creat\$4) adj (passivation adj layer)).clm.)) and (passivation).ab.</p>	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/21 19:12

13	55	((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.2O.sub.3")))) not (((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.2O.sub.3")))) and ((form\$4 or creat\$4) adj (passivation adj layer)).clm.)) not ((((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.2O.sub.3")))) not ((((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.2O.sub.3")))) and ((form\$4 or creat\$4) adj (passivation adj layer)).clm.)) and (passivation).ab.)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/21 19:12
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14	6	(((((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.2O.sub.3")))) not ((((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.2O.sub.3")))) and (((form\$4 or creat\$4) adj (passivation adj layer)).clm.)) not ((((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.2O.sub.3")))) not (((((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.2O.sub.3")))) and (((form\$4 or creat\$4) adj (passivation adj layer)).clm.)) and (passivation).ab.)) and (passivation).clm.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/21 19:18
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[illegible]

[illegible]

17	237	(ferroelectr\$4 or magnet\$4) and (sputter\$4 with passivation)	USPAT; US-PGPUB; EPO; JPO; IBM TDB	2004/03/21 19:37
18	16	((ferroelectr\$4 or magnet\$4) and (sputter\$4 with passivation)) and (((Aluminum or "Al") and (Titanium or "Ti")) with passivation)	USPÄT; US-PGPUB; EPO; JPO; IBM TDB	2004/03/21 19:25

19		12	((ferroelectr\$4 or magnet\$4) and (sputter\$4 with passivation)) and (((Aluminum or "Al") and (Titanium or "Ti")) with passivation)) not ((zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.) (((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.20.sub.3"))))) and (((form\$4 or creat\$4) adj (passivation adj layer)).ab.) ((((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.20.sub.3"))))) and ((form\$4 or creat\$4) adj (passivation adj layer)).clm.) (((((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.20.sub.3"))))) not (((((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.20.sub.3"))))) and ((form\$4 or creat\$4) adj (passivation adj layer)).clm.)) and (passivation).ab.) (((((((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.20.sub.3"))))) and ((form\$4 or creat\$4) adj (passivation adj layer)).clm.)) and (passivation).ab.)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/21 19:26
Search History	3/2	07-08-14 10:40 PM	(ferroelectr\$4 or magnet\$4) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.20.sub.3"))))) and ((form\$4 or creat\$4) adj (passivation adj layer)).clm.)) and (passivation).ab.)	PAGE 49	

20	170	(ferroelectr\$4 or magnet\$4) and ((Aluminum or "Al") and (Titanium or "Ti") with passivation)	USPAT; US-PGPUB; EPO; JPO; IBM TDB	2004/03/21 20:41
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21	145	(ferroelectr\$4 or magnet\$4) and ((Aluminum or "Al") and (Titanium or "Ti") with passivation)) not ((zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.) (((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.20.sub.3"))))) and (((form\$4 or creat\$4) adj (passivation adj layer)).ab.) ((((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.20.sub.3"))))) and ((form\$4 or creat\$4) adj (passivation adj layer)).clm.) (((((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.20.sub.3"))))) not (((((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.20.sub.3"))))) and ((form\$4 or creat\$4) adj (passivation adj layer)).clm.)) and (passivation).ab.) (((((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.20.sub.3"))))) and ((form\$4 or creat\$4) adj (passivation adj layer)).clm.)) and (passivation).ab.)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/21 19:38
Search History	3/21/2004 8:23 PM	(ferroelectr\$4 or magnet\$4) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.20.sub.3"))))) not		

22	95	<p>((ferroelectr\$4 or magnet\$4) and ((Aluminum or "Al") and (Titanium or "Ti") with passivation)) not ((zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.) (((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.20.sub.3")))) and ((form\$4 or creat\$4) adj (passivation adj layer)).ab.) ((((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.20.sub.3")))) and ((form\$4 or creat\$4) adj (passivation adj layer)).clm.) (((((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.20.sub.3")))) not (((((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.20.sub.3")))) and ((form\$4 or creat\$4) adj (passivation adj layer)).clm.)) and (passivation).ab.) (((((((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.20.sub.3")))) and ((form\$4 or creat\$4) adj (passivation adj layer)).clm.)) and (passivation).ab.)</p>	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/21 19:38
Search History	3/4	<p>zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.20.sub.3")))) and ((form\$4 or creat\$4) adj (passivation adj layer)).clm.)) and (passivation).ab.)</p>	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/21 19:38

23	45	<p>((((ferroelectr\$4 or magnet\$4) and ((Aluminum or "Al") and (Titanium or "Ti") with passivation)) not ((zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.) (((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.2O.sub.3")))) and (((form\$4 or creat\$4) adj (passivation adj layer)).ab.) ((((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.2O.sub.3")))) and (((form\$4 or creat\$4) adj (passivation adj layer)).clm.) ((((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.2O.sub.3")))) not ((((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.2O.sub.3")))) and (((form\$4 or creat\$4) adj (passivation adj layer)).clm.)) and (passivation).ab.) (((((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.2O.sub.3")))) and (((form\$4 or creat\$4) adj (passivation adj layer)).clm.)) and (passivation).ab.)</p>	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/21 19:39
Search History	3/27/2004 8:44:50 PM	<p>zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) not (((((form\$4 or creat\$4) adj (passivation adj layer) and (ferroelect\$4 or magnet\$4)) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber) and (aluminum or "Al") and (titanium or "Ti")) and (((titanium adj oxide) or "TiO.sub.2") and ((aluminum adj oxide) or "Al.sub.2O.sub.3")))) and (((form\$4 or creat\$4) adj (passivation adj layer)).clm.)) and (passivation).ab.)</p>		

24	2	(ferroelectr\$4 or magnet\$4) and ("Al-Ti-O" or "Al--Ti--O")	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/21 20:42
-	0	"2001/0034106".PN.	USPAT	2004/03/21 18:20
-	0	bhang-fengyan.in.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/19 17:23
-	122	zhang-fengyan.in.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/19 17:23
-	306	hsu-sheng-teng.in.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/19 17:23
-	13	ying-hong.in.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/19 17:23
-	5	(titanium near2 aluminum near2 passivation) and ferroelectric	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/19 17:23
-	0	((titanium near2 aluminum near2 passivation) and ferroelectric) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/19 17:23
-	573	((titanium and aluminum and passivation) and ferroelectric) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/19 17:24
-	266	((((titanium and aluminum and passivation) and ferroelectric) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber and (method or process)))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/19 17:24
-	87	(((((titanium and aluminum and passivation) and ferroelectric) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber and (method or process)))) and ((top or upper) adj electrode)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/19 17:24
-	0	((((((titanium and aluminum and passivation) and ferroelectric) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber and (method or process)))) and ((top or upper) adj electrode)) and passivation.ti.) not ((((((titanium and aluminum and passivation) and ferroelectric) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber and (method or process)))) and ((top or upper) adj electrode)) and passivation.ab.)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/19 17:24
-	1	"6630702"	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/19 17:24
-	580	(titanium and aluminum and passivation) and ferroelectric	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/19 17:24
-	5	(zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.) and ((titanium near2 aluminum near2 passivation))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/19 17:24

-	2	(((titanium and aluminum and passivation) and ferroelectric) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber and (method or process))) and ((top or upper) adj electrode)) and passivation.ti.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/19 17:24
-	2	(((titanium and aluminum and passivation) and ferroelectric) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber and (method or process))) and ((top or upper) adj electrode)) and passivation.ab.) not (((titanium and aluminum and passivation) and ferroelectric) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber and (method or process))) and ((top or upper) adj electrode)) and passivation.ti.)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/19 17:30
-	411	ferroelectric and passivation and chamber	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/19 17:31
-	345	(ferroelectric and passivation and chamber) and electrode	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/19 17:31
-	236	((ferroelectric and passivation and chamber) and electrode) and ("Al" or aluminum) and ("Ti"or Titanium)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/19 17:32
-	230	((ferroelectric and passivation and chamber) and electrode) and ("Al" or aluminum) and ("Ti"or Titanium)) not (((ferroelectric and passivation and chamber) and electrode) and ("Al" or aluminum) and ("Ti"or Titanium)) and (((Al" or aluminum) and ("Ti"or Titanium)) with passivation))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/19 17:54
-	16	(((ferroelectric and passivation and chamber) and electrode) and ("Al" or aluminum) and ("Ti"or Titanium)) not (((ferroelectric and passivation and chamber) and electrode) and ("Al" or aluminum) and ("Ti"or Titanium)) and (((Al" or aluminum) and ("Ti"or Titanium)) with passivation))) and (aluminum adj oxide) and (titanium adj oxide)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/19 17:56
-	23	(method or process) and (ferroelectric) and electrode and chamber and ((Titanium adj oxide) or "Ti.sub.2 O.sub.3") and ((aluminum adj oxide) or "Al.sub.2 O.sub.3") and passivation	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/20 18:34
-	4	(((titanium and aluminum and passivation) and ferroelectric) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber and (method or process))) and ((top or upper) adj electrode)) and passivation.ab.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/20 18:35
-	3	(((titanium and aluminum and passivation) and ferroelectric) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber and (method or process))) and ((top or upper) adj electrode)) and passivation.clm.) not (((titanium and aluminum and passivation) and ferroelectric) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber and (method or process))) and ((top or upper) adj electrode)) and passivation.ab.)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/20 18:36

-	6	(((titanium and aluminum and passivation) and ferroelectric) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber and (method or process))) and ((top or upper) adj electrode)) and passivation.clm.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/20 18:36
-	6	(((ferroelectric and passivation and chamber) and electrode) and ("Al" or aluminum) and ("Ti"or Titanium)) and (("Al" or aluminum) and ("Ti"or Titanium)) with passivation)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/20 18:36
-	7	(((ferroelectric and passivation and chamber) and electrode) and ("Al" or aluminum) and ("Ti"or Titanium)) not (((ferroelectric and passivation and chamber) and electrode) and ("Al" or aluminum) and ("Ti"or Titanium)) and (("Al" or aluminum) and ("Ti"or Titanium)) with passivation))) and (aluminum adj oxide) and (titanium adj oxide)) and (sputter\$4 near3 ((aluminum or "Al") and (titanium or "Ti")))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/20 18:36
-	14	((method or process) and (ferroelectric) and electrode and chamber and ((Titanium adj oxide) or "Ti.sub.2 O.sub.3") and ((aluminum adj oxide) or "Al.sub.2 O.sub.3") and passivation) not ((((((titanium and aluminum and passivation) and ferroelectric) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber and (method or process))) and ((top or upper) adj electrode)) and passivation.ab.) (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.) ((((((titanium and aluminum and passivation) and ferroelectric) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber and (method or process))) and ((top or upper) adj electrode)) and passivation.clm.) not ((((((titanium and aluminum and passivation) and ferroelectric) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber and (method or process))) and ((top or upper) adj electrode)) and passivation.ab.) ((((((titanium and aluminum and passivation) and ferroelectric) not (zhang-fengyan.in. hsu-sheng-teng.in. ying-hong.in.)) and (chamber and (method or process))) and ((top or upper) adj electrode)) and passivation.clm.) (((ferroelectric and passivation and chamber) and electrode) and ("Al" or aluminum) and ("Ti"or Titanium)) and (("Al" or aluminum) and ("Ti"or Titanium)) with passivation)) (((ferroelectric and passivation and chamber) and electrode) and ("Al" or aluminum) and ("Ti"or Titanium)). not (((ferroelectric and passivation and chamber) and electrode) and ("Al" or aluminum) and ("Ti"or Titanium)) and (("Al" or aluminum) and ("Ti"or Titanium)) with passivation))) and (aluminum adj oxide) and (titanium adj oxide)) and (sputter\$4 near3 ((aluminum or "Al") and (titanium or "Ti"))))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/20 18:37